

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. - 25. (Canceled).

26. (Currently Amended) A machine, comprising:

an operator cabin; and

an air-treatment system including:

a cooling circuit;

a first heat exchanger in thermal communication with the cooling circuit;

a secondary circuit in thermal communication with the first heat exchanger, the secondary circuit operable to selectively transfer heat between the operator cabin of the machine and at least one of the cooling circuit and the first heat exchanger;

at least one first heating circuit in fluid communication with the secondary circuit;

a second heating circuit connected to the at least one first heating circuit, the second heating circuit having an engine, and the fluid from the at least one first heating circuit being selectively allowed to flow through the second heating circuit to impart heat to the engine; and

a controller in communication with at least one of the cooling circuit, the first heat exchanger, and the secondary circuit, the controller operable to

receive at least one input indicative of a desired ambient condition of the operator cabin, a current ambient condition of the operator cabin, and of at least one of a cooling circuit operation and a secondary circuit operation, and operable to change the operation of at least one of the cooling circuit and the secondary circuit when the current ambient condition of the operator cabin is outside of a desired ambient condition range.

27. (Previously Presented) The machine of claim 26, further including:

a sleeping cabin, wherein the controller is operable to receive input indicative of a desired ambient condition of the sleeping cabin, operable to receive input indicative of a current ambient condition of the sleeping cabin, and operable to change the operation of at least one of the cooling circuit and the secondary circuit when the current ambient condition of the sleeping cabin is outside of a desired ambient condition range.

28. - 29. (Canceled).

30. (Currently Amended) A method of treating ambient air in a machine, comprising:

- operating a cooling circuit to cool a refrigerant;
- operating a secondary circuit to selectively transfer heat from at least one of an operator cabin and a sleeping cabin of the machine to the cooled refrigerant;
- operating a first heating circuit in fluid communication with the secondary circuit to selectively transfer heat to at least one of the operator cabin and the sleeping cabin;
- operating a second heating circuit in fluid communication with the first heating circuit and the secondary circuit to selectively transfer heat to at least one of the operator cabin and the sleeping cabin;
- receiving input indicative of a desired ambient condition;
- receiving input indicative of a current ambient condition;
- receiving input indicative of at least one of a cooling circuit operation and a secondary circuit operation; and
- changing at least one of the cooling circuit operation and the secondary circuit operation when the desired ambient condition is outside of a desired ambient condition range.

31. - 32. (Canceled).

33. (Currently Amended) The method of claim ~~[[32]]~~ 30, further including allowing a flow of heated fluid from the first heating circuit to the second heating circuit to heat an engine.

34. (Original) The method of claim 30, further including heating the flow of air after removing humidity with the cooled fluid in the secondary circuit and then directing the flow of air to the operator cabin.

35. - 44. (Canceled).